

```
#include <stdio.h>

int s[10], top = -1;

void push()
{
    if (top == (10 - 1))
    {
        printf("Stack is full. Stack overflow\n");
    }
    else
    {
        int item;
        printf("Enter the element:\n");
        scanf("%d", &item);
        top++;
        s[top] = item;
    }
}

void pop()
{
    if (top == -1)
    {
        printf("Stack is empty . Stack underflow\n");
    }
    else
    {
        printf("Popped element is :%d\n", s[top]);
        top--;
    }
}

void display()
{
```

```

int i;
if (top >= 0)
{
    for (i = top; i >= 0; i--)
    {
        printf("%d ", s[i]);
    }
    printf("\n");
}
else
    printf("Stack is empty\n");
}

void main()
{
    int choice;
    do
    {
        printf("1.Push\n2.Pop\n3.Display\n4.Quit\n");
        printf("Enter the option:\n");
        scanf("%d", &choice);
        switch (choice)
        {
            case 1:
                push();
                break;
            case 2:
                pop();
                break;
            case 3:
                display();
                break;

```

```
        case 4:
            exit(0);
        default:
            printf("Enter a valid option\n");
    }
} while (choice != 4);
}
```

```
1.Push
2.Pop
3.Display
4.Quit
Enter the option:
1
Enter the element:
5
1.Push
2.Pop
3.Display
4.Quit
Enter the option:
1
Enter the element:
10
1.Push
2.Pop
3.Display
4.Quit
Enter the option:
3
10 5
1.Push
2.Pop
3.Display
4.Quit
Enter the option:
4

Process returned 0 (0x0)   execution time : 9.516 s
Press any key to continue.
```